

Specifications for Velodyne VA-810X and VA-1012X

	VA-810X	VA-1012X
Cabinet (inc. legs)	14.75" (w) 15.50" (h) 14.68" (d)	17.15" (w) 18.05" (h) 17.18" (d)
Hi Pass Crossover	85 Hz (fixed) 6 db per octave	85 Hz (fixed) 6 db per octave
Low Pass Crossover	6 db per octave 24 db ultimate	6 db per octave 24 db ultimate
Amplifier	Class A/B 65 watts RMS 200 watts peak	Class A/B 80 watts RMS 240 watts peak
Frequency Response	35-85 Hz	28-85 Hz
Woofer	8 inches Forward firing	10 inches Forward firing
Magnet	53 ounces	55 ounces
Voice Coil	2"	2"
Passive Radiator	10" Down firing	12" Down firing
Inputs	Line level Speaker level	Line level Speaker level
Outputs	Line level Speaker level	Line level Speaker level
Warranty	One year (parts & labor)	One year (parts & labor)
Weight	44 lbs. (approx.)	58 lbs. (approx.)

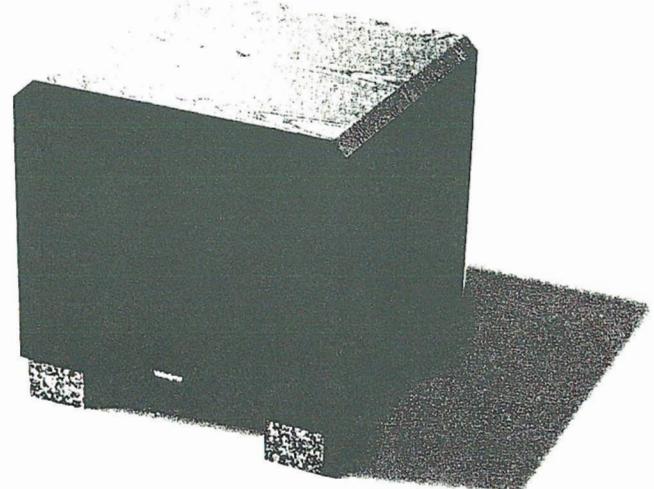
Specifications subject to change without notice.

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XSERIES

Owner's Manual

Models VA-810X & VA-1012X



Velodyne
Audio/Video Subwoofer System

While it is recommended that the subwoofer be placed on the same plane as the satellite speakers, room and system conditions often dictate otherwise. See your dealer for help in placement.

When using a pair of VA-X Subwoofers in stereo, it is preferable to place each subwoofer adjacent to the satellite of the same channel.

Keep in mind that frequency response and output level can be greatly influenced by placement depending on the acoustic properties of the listening room. Typically, the VA-X Subwoofer will sound louder next to a wall or in a corner.

Caution!

The VA-X Series Subwoofer amplifier is built into the subwoofer cabinet. Do not place the cabinet next to sources of heat such as furnace registers, etc. The power cord should be routed in such a way that it will not be walked on, pinched, or compressed.

Regardless of where you install your VA-X Subwoofer, it must remain in an upright position (passive radiator facing downward). Using, shipping, or otherwise storing the VA-X Subwoofer in any other position for an extended period of time may cause the passive radiator suspension to permanently deform.

The VA-X Subwoofer's driver has been magnetically shielded to reduce magnetic emissions from its cabinet. However, this shielding may not be adequate for all installations. Large-screen televisions are particularly sensitive to stray magnetic fields. If your television produces distorted colors after installation of your VA-X Subwoofer, increase the distance between your VA-X Subwoofer and television until normal coloration is attained.

Controls

The control panel on the back of your VA-X Series Subwoofer includes a power switch and a level control.

The power switch is a rocker type and is located in the upper right position of the panel.

The subwoofer level control knob (upper left position) is used to adjust the volume level of bass information in relation to the midrange and treble frequencies. We recommend that you begin listening with the level set at the point midway between MAXIMUM (fully clockwise) and MINIMUM (fully counter-clockwise). Play several selections of music and vary the subwoofer **level** until the bass matches the mids and highs to your satisfaction. Once you set the subwoofer level, simply use your system's main volume control to maintain consistent bass.

Velodyne

Owner's Manual

VA-X Series Subwoofer System

Congratulations!

Congratulations on your purchase of a Velodyne VA-X Series Subwoofer System. This system represents the state of the art in accurate bass reproduction. Read and follow the instructions below to insure safe and proper system operation.

Warning!

To prevent fire or shock hazard, do not expose this equipment to rain or moisture. To avoid electrical shock, do not open speaker enclosure or amp chassis cover. Please observe all warnings on the equipment itself. There are no user serviceable parts inside. Please refer all service questions to your authorized Velodyne dealer.

Prior to installation

Please unpack the system carefully. Remove all staples used to seal the carton as they can scratch the cabinet. Please save the carton and all packaging materials for future use. Record the serial number in the space provided on the warranty card for future reference.

Installation

Your new VA-X Series subwoofer system provides for a number of installation options. Read all the installation information below in order to determine which installation option is best for your system. **Remember to perform all installation procedures with system power turned off.**

Inputs

The VA-X Series Subwoofer is equipped with both speaker-level and line-level stereo inputs. Use the LINE-IN jacks when connecting your subwoofer to a pre-amp, signal processor or line-level crossover. The FROM AMPLIFIER jacks connect directly to the speaker outputs of your integrated amplifier or receiver. Your amplifier section will notice no additional loading effects when you use these inputs because of their high impedance.

Note

Do not use both LINE-IN and FROM AMPLIFIER inputs simultaneously.

Crossover

Both sets of inputs sum the right and left channels together and the resulting signal is passed through an 85 cycle crossover before being

amplified. Your satellite speakers will operate at 85 cycles and above.

Interconnection Cables.

When installing your VA-X using FROM AMPLIFIER and TO SPEAKERS (as in Figure 1) run the same quality speaker cable to your subwoofer as you do to your satellites.

Cables connected to LINE-IN and LINE-OUT should be standard shielded phono cables. Always keep leads between your pre-amp and power amplifier as short as possible. If necessary, cables to the subwoofer unit alone can be quite long.

Installation using FROM AMPLIFIER inputs

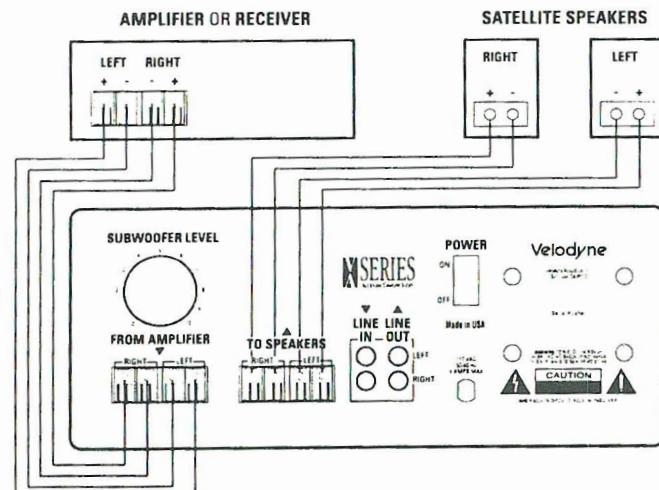
Figure 1 shows an easy way to connect your VA-X Series Subwoofer to a receiver or integrated amplifier. You can also connect your satellites directly to your receiver or amplifier along with the subwoofer.

Observe right and left channel designations above terminals. Red terminals are positive, black terminals are negative (common).

When hooked-up in this fashion, the nominal crossover frequency will be 85 cycles.

Caution!

To avoid damage to your main amplifier, be sure to make all speaker connections from RED (positive) to RED and BLACK (negative) to BLACK. Be sure that all connections are tight, and that there are no loose strands or frayed wires.



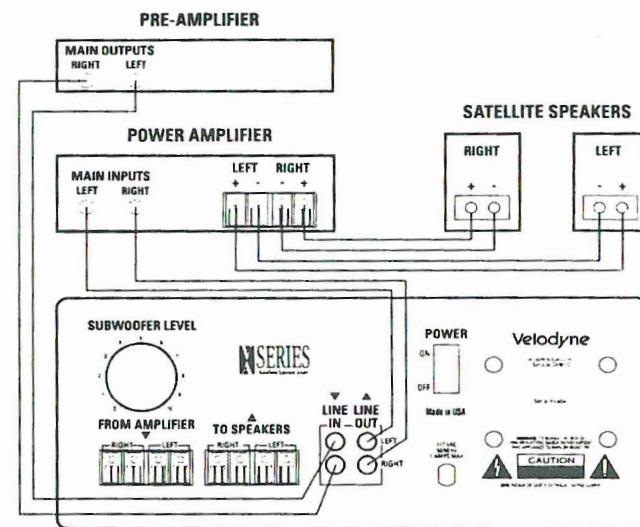
VA-X Series Rear Panel

Figure1: Installation using FROM AMPLIFIER inputs

Installation using LINE-IN inputs

Figure 2 shows connection to a pre-amplifier's main outputs and returning to your amplifier inputs.

When hooked up in this fashion, your satellite speakers will be crossed over at 85 cycles removing the lower bass from your amplifier and speakers enabling them to do a better job with the upper frequencies. By utilizing this bi-amplified system, you are gaining power and headroom for your system.



VA-X Series Rear Panel

Figure 2: Installation using LINE-IN inputs

A word about subwoofer outputs (surround sound applications)

The Velodyne subwoofer is designed to operate using the full range audio signal. Some surround sound processors/receivers have a "Subwoofer Out" jack that is already crossed over and designed to be used with a conventional amplifier and speaker. If this is the case, since the Velodyne subwoofer has a built-in crossover, connect the Velodyne to the front or main channel outputs of your processor/receiver. Combining the crossover of the Velodyne with the crossover of the processor will result in low gain and increased noise.

Placement

The VA-X series operates primarily at frequencies below 85 cycles.

SAFETY INSTRUCTIONS



Caution

To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the subwoofer.

1. Read Instructions -- All safety and operating instructions should be read before the subwoofer is operated.
2. Retain Instructions -- The safety and operating instructions should be retained for future reference.
3. Heed warnings -- All warnings on the subwoofer and in the operating instructions should be adhered to.
4. Follow Instructions -- All operating and use instructions should be followed.
5. Water and Moisture -- The subwoofer should not be used near water -- for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool or the like.
6. Carts and Stands -- The subwoofer should be used only with a cart or stand recommended by the manufacturer.
7. Wall or Ceiling Mounting -- The subwoofer should be mounted to a wall or ceiling on as recommended by the manufacturer.
8. Ventilation -- The subwoofer should be situated so that its location or position does not interfere with its proper ventilation. For example, the subwoofer should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. Heat -- The subwoofer should be situated away from heat sources such as radiators, heat registers, stoves, or other subwoofers that produce heat.
10. Power Sources -- The subwoofer should be connected to a power supply only of the type described in the operating instructions or as marked on the subwoofer.
11. Power-Cord Protection -- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point at which they exit from the subwoofer.
12. "Caution: To prevent electrical shock, match wide blade of plug to wide slot, fully inserted." "Attention: Pour éviter les chocs électriques, introduire lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu' au fond."
13. Cleaning -- The subwoofer should be cleaned only as recommended by the manufacturer.
14. Nonuse Periods -- The power cord of the subwoofer should be unplugged from the outlet when left unused for a long period of time.
15. Object and Liquid Entry -- Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
16. Damage Requiring Service -- The subwoofer should be serviced by qualified service personnel when:
 - a. The power-supply cord or the plug has been damaged; or
 - b. Objects have fallen, or liquid has been spilled into the subwoofer, or
 - c. The subwoofer has been exposed to rain; or
 - d. The subwoofer does not appear to operate normally or exhibits a marked change in performance; or
 - e. The subwoofer has been dropped, or the enclosure damaged.
17. Servicing -- The user should not attempt to service the subwoofer beyond what is described in the operating instructions.

All other servicing should be referred to qualified service personnel.

Care of your subwoofer

*We recommend using a damp clean cloth to clean the cabinet.
Never use detergents or abrasives on your VA-X series subwoofer.*

The VA-X Series Subwoofer may be left on continuously without fear of long term adverse effects. We do recommend that you turn off the unit during extended periods of nonuse.

Troubleshooting/Service

Before seeking service for your VA-X Subwoofer, please re-check all systems and power connections. If you determine that your unit requires service, then please contact your local Velodyne dealer.

The following conditions **always** require service by qualified personnel:

1. If the power cord is damaged.
2. If the unit does not appear to operate normally or exhibits a marked change in performance.
3. If the unit has been exposed to water.

Thank you for purchasing a Velodyne!

Serial Number: _____

Date of purchase: _____

Name of store: _____

Please complete and return your warranty card within ten (10) days of purchase to:

Velodyne Acoustics, Inc.
1070 Commercial Street, Suite 101
San Jose, CA 95112
(408) 436-7270